

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

28111/32106B

Serial No.

09/196 673

RECEIVED

NOV 24 2001

INFORMATION DISCLOSURE STATEMENT

Applicant

McCafferty et al.

Filing Date

11/20/98

Group

1627

(Use several sheets if necessary)

TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS

*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
PP	A8	5,258,289	11/02/93	Davis et al.	435	69.6	
	A9	5,567,610	10/22/96	Borrebaeck et al.	435	240.2	
	A10	5,580,717	12/03/96	Dower et al.	435	5	
	A11	5,698,426	12/16/97	Huse	435	172.3	
	A12	5,780,225	07/14/98	Wigler et al.	435	6	
	A13	5,814,476	09/29/98	Kauffman et al.	435	69.1	
	A14	5,837,500	11/17/98	Lader et al.	435	69.7	
	A15	5,840,479	11/24/98	Little et al.	435	5	
	A16	5,855,885	01/05/99	Smith et al.	424	130.1	
	A17	5,885,793	03/23/99	Griffiths et al.	435	69.1	
	A18	5,935,823	08/10/99	Fowlkes et al.	435	69.7	
	A19	5,948,635	09/07/99	Kay et al.	435	69.1	
	A20	5,955,358	09/21/99	Huse	435	328	

FOREIGN PATENT DOCUMENTS

*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
PP	B18	GB 91/25579.4	12/02/91	U.K.			✓	
	B19	GB 91/25582.8	12/02/91	U.K.			✓	
	B20	WO 92/01047	01/23/92	WIPO			✓	

EXAMINER

P. Ponnatur

DATE CONSIDERED

1/10/01

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

28111/32106B

Serial No.

09/196,673

INFORMATION DISCLOSURE STATEMENT

Applicant

McCafferty et al.

Filing Date

11/20/98

Group

1627

(Use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

pp	C101	Abbas et al., "Cellular and Molecular Immunology," Saunders, Third Edition, p. 412 (1997).
	C102	Alberts et al., "Molecular Biology of the Cell," Garland Publications, Third Edition, p. 96 (1994).
	C103	Avrameas and Ternynck, "Natural Antibodies," in Delves, P., and I. Roitt, <i>The Encyclopedia of Immunology</i> , Second Edition, Academic Press, pp. 1806-1809 (1998).
	C104	Barbas et al., "Combinatorial Immunoglobulin Libraries on the Surface of Phage (Phabs): Rapid Selection of Antigen Specific Fabs," <i>Methods: Companion Methods Enzymol.</i> , 2:119 (1991).
	C105	Barbas et al., "Assembly of Combinatorial Antibody Libraries on Phage Surfaces: The Gene III Site," <i>Proc. Natl. Acad. Sci. (USA)</i> , 88:7978-7982 (1991).
	C106	Beidler et al., "Cloning and High Level Expression of a Chimeric Antibody with Specificity for Human Carcinoembryonic Antigen," <i>J. Immunology</i> , 141:4053-4060 (1988).
	C107	Berborowicz and Jaroszewski, "Carcinoembryonic Antigen as an Autoantigen," <i>Immunol. Ser.</i> , 52:65-83 (1982).
	C108	Berzofsky et al., "Antigen-Antibody Interactions and Monoclonal Antibodies," in Paul, W., <i>Fundamental Immunology</i> , Second Edition, Chapter 12, p. 332 (see also, Fourth Edition, 1994, [1999] chapter 4, p. 91).
	C109	Boerner et al., "Production of Antigen-Specific Human Monoclonal Antibodies From In Vitro-Primed Human [Splenocytes]," <i>J. Immunol.</i> , 147:86-95 (1991).
	C110	Breitling et al., "A Surface Expression Vector for Antibody Screening," <i>Gene</i> , 104:147-153 (1991).
✓	C111	Burton et al., "A Large Array of Human Monoclonal Antibodies to Type 1 Human Immunodeficiency Virus from Combinatorial Libraries of Asymptomatic Seropositive Individuals," <i>Proc. Natl. Acad. Sci.</i> , 88:10134-10137 (1991).

EXAMINER

P. Ponnalun

DATE CONSIDERED

1/10/01

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Att. Docket No.

28111/32106B

Serial No.

09/196,673

INFORMATION DISCLOSURE STATEMENT

Applicant

McCafferty et al.

Filing Date

11/20/98

Group

1627

(Use several sheets if necessary)

RECEIVED

NOV 24 2000

TECH CENTER 1600/2900

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

pp	C112	Casali and Notkins, "Probing the Human [B-Cell] Repertoire with EBV: Polyreactive Antibodies and CD5+ B Lymphocytes," <i>Ann. Rev. Immunol.</i> , 7:513-535 (1989).
	C113	Chang et al., "Expression of Antibody Fab Domains on Bacteriophage Surfaces: Potential Use of Antibody Selection," <i>J. Immunol.</i> , 1047:3610-3614 (1991).
	C114	Chothia et al., "Structural Repertoire of the Human Vh Segments," <i>J. Molec. Biol.</i> , 227:799-817 (1992).
	C115	Clackson et al., Making Antibody Fragments Using Phage Display Libraries," <i>Nature</i> , 352:624-628 (1991).
	C116	Cohen, P.L., "Systemic Autoimmunity," in Paul, W., <i>Fundamental Immunology</i> , Fourth Edition, Lippincott-Raven, p. 1608 [1067].
	C117	Delves, P.J., "Autoimmunity," in Delves, P. and I. Roitt, <i>The Encyclopedia of Immunology</i> , Second Edition, Academic Press, p. 292 (1998).
	C118	Dighiero et al., "Naturally Occurring Autoantibodies Against Nine Common Antigens in Human Sera," <i>J. Immunol.</i> , 218[128]:2788-2792 (1982).
	C119	Fomsgaard et al., "Auto-antibodies to Tumor Necrosis Factor in Healthy Humans and Patients with Inflammatory Diseases and Gram-Negative Bacterial Infections," <i>Scand. J. Immunol.</i> , 30:219-223 (1989).
	C120	Golub, E., and Green, D., "Immunology: A Synthesis," Sinauer Associates, Second Edition, p. 531 (1991).
	C121	Golub, E., "The Limits of Medicine: How Science Shapes our Hope for the Cure," Times Books/Random House, p. 117-120 (1994).
	C122	Goodnow et al., "Altered Immunoglobulin Expression and Functional Silencing of Self-Reactive B Lymphocytes in Transgenic Mice," <i>Nature</i> , 334:676-682 (1988).
✓	C123	Gram et al., "In vitro Selection and Affinity maturation of Antibodies from a Naive Combinatorial Immunoglobulin Library," <i>Proc. Natl. Acad. Sci. (USA)</i> , 89:3576-3580 (1992).

EXAMINER

P. Ponnaluri

DATE CONSIDERED

1/10/01

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

28111/32106B

Serial No.

09/196,673

INFORMATION DISCLOSURE STATEMENT

Applicant

McCafferty et al.

Filing Date

11/20/98

Group

1627

(Use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

PP	C124	Griffiths et al., "Human Anti-Self Antibodies with High Specificity from Phage Display Libraries," EMBO J., 12:725-734 (1993).
	C125	Griffiths et al., "Isolation of High Affinity Human Antibodies Directly from Large Synthetic Repertoires," EMBO J., 13:3245-3260 (1994).
	C126	Guilbert et al., "Naturally Occurring Antibodies Against Nine Common Antigens in Human Sera," J. Immunol., 128:2779-2787 (1982).
	C127	Hartman and Wright, "Identification of Autoantibodies Specific for the Neutrophil Adhesion Glycoproteins CD11b/CD18 in Patients with Autoimmune Disease [Neutropenia]," Blood, 78:1096-1104 (1991).
	C128	Hirohata et al., "Frequency Analysis of Human Peripheral Blood B Cells Producing IgM-Rheumatoid Factor," J. Immunol., 145:1681-1686 (1990).
	C129	Hoogenboom et al., "Building Antibodies From Their Genes," Rev. Fr. Transfus. Hemobiol., 36:19-47 (1993).
	C130	Hoogenboom et al., "Multi-subunit Proteins on the Surface of Filamentous Phage: Methodologies for Displaying Antibody (Fab) Heavy and Light Chains," Nucl. Acids Res., 19:4133-4137 (1991).
	C131	Huse, "Combinatorial Antibody Expression Libraries in Filamentous Phage," Chapter 5 of <i>Antibody Engineer</i> , Borrebaeck (ed.), W.H. Freeman and Co. N.Y. (1992).
	C132	Huston et al., "Protein Engineering of Single-Chain Fv Analogs and Fusion Proteins," Methods in Enzymology, 203:46-88 (1991).
	C133	Kaushik et al., "Comparative Analysis of Natural Antibody Specificities Among Hybridomas Originating from spleen and Peritoneal Cavity of Adult NZB and BALB/c Mince," Scand. J. Immunol., 27:461-471 (1988).
✓	C134	Klein and Horejsi, "Immunology" [Chapter 20, "Immunological Tolerance"], Blackwell Scientific, Second Edition, p. 527 (1997).

EXAMINER

P. Ponnaluri

DATE CONSIDERED

1/10/01

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

28111/32106B

Serial No.

09/196,673

INFORMATION DISCLOSURE STATEMENT

Applicant

McCafferty et al.

Filing Date

11/20/98

Group

1627

(Use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

pp	C135	Koga et al., "Mouse-Human Chimeric Monoclonal Antibody to Carcinoembryonic Antigen (CEA): In Vitro and In Vivo Activities," Hybridoma, 9:43-56 (1990).
	C136	Landsteiner, K., "The Specificity of the Immune Response," quoted in Golub, E., <i>Immunology: A Synthesis</i> , Sinauer Associates, p. 19-25, [1991 book] (1987).
	C137	Logtenberg et al., "Analysis of the Human Tonsil B Cell Repertoire by Somatic Hybridization: Occurrence of Both "Monospecific" and "Multispecific" (auto) Antibody-Secreting Cells," Eur. J. Immunol., 17:855-859 (1987).
	C138	Lydyard et al., "The Antibody Repertoire of Early Human B Cells," Scand. J. Immunol., 31:33-43 (1990).
	C139	Mamula et al., "The Specificity of Human Anti-Cytochrome c Autoantibodies that Arise in Autoimmune Disease," J. Immunol., 144:1835-1840 (1990).
	C140	Marks et al., "Molecular Evolution of Proteins on Filamentous Phage," J. Biol. Chem., 267:16007-16010 (1992).
	C141	McHeyzer-Williams et al., "Clonal Analysis of Autoantibody-Producing Cell Precursors in the Preimmune B Cell Repertoire," J. Immunol., 141:4118-4123 (1988).
	C142	Mullinax et al., "Identification of Human Antibody Fragment Clones Specific For Tetanus Toxoid in a Bacteriophage λ Immunoexpression Library," Proc. Natl. Acad. Sci., USA, 87:8095-8099 (1990).
	C143	Nemazee and Burk, "Clonal Deletion of B Lymphocytes in a Transgenic Mouse Bearing Anti-MHC Class I Antibody Genes," Nature, 377:562-566 (1989).
	C144	Nossal, G.V.J., "Cellular Mechanisms of Immune[ologic] Tolerance," Ann. Rev. Immunol., 1:33-62 (1983).
✓	C145	Nossal, G.V.J., "Molecular and Cellular Aspects of Immunologic Tolerance," Eur. J. Biochem., 202:729-737 (1991).

EXAMINER

P. Ponnalun

DATE CONSIDERED

1/10/01

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

28111/32106B

Serial No.

09/196,673

INFORMATION DISCLOSURE STATEMENT

Applicant

McCafferty et al.

Filing Date

11/20/98

Group

1627

(Use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

pp	C146	Neumaier et al., "Cloning of the Genes for T84.66, an Antibody That Has a High Specificity and Affinity for Carcinoembryonic Antigen, and Expression of Chimeric Human/Mouse T84.66 Genes in Myeloma and Chinese Hamster Ovary Cells," Cancer Research, 50:2128-2134 (1990).
	C147	Persson et al., "Generation of Diverse High-Affinity Human Monoclonal Antibodies by Repertoire Cloning," Proc. Natl. Acad. Sci., 88:2432-2436 (1991).
	C148	Ruf et al., "Various Expressions of a Unique Anti-Human Thyroglobulin Antibody Repertoire in Normal State and Autoimmune Disease," Blood, 78:1096-1104 (1991).
	C149	Smith et al., "Phage Display," Chem. Rev., 97:391-410 (1997).
	C150	Svenson et al., "IgG Autoantibodies Against Interleukin 1 α in Sera of Normal Individuals," Scand. J. Immunol., 29:489-492 (1989).
	C151	Tomlinson et al., "The Repertoire of Human Germline Vh Segments [Sequences Reveals about Fifty Groups of VH Segments] with Different Hypervariable Loops," J. Mol. Biol., 227:776-798 (1992).
	C152	Ura et al., "Studies on Circulating Antibody Against Carcinoembryonic Antigen (CEA) and CEA-like Antigen in Cancer Patients," Cancer Letters, 25:283-295 (1985).
	C153	Waterhouse et al., "Combinatorial Infection and in Vivo Recombination: A Strategy for Making Large Phage Antibody Repertoires," Nucl. Acids Res., 21:2265-2266 (1993).
	C154	Wilson and Stanfield, "Antibody-antigen Interactions: New Structures and New Conformational Changes," Curr. Opin. Structural Biol., 4:857-867 (1994).
✓	C155	Winter et al., "Making Antibodies by Phage Display Technology," Annu. Rev. Immunol., 12:433-455 (1994).
	C156	Complaint filed 4/23/99
	C157	First Amended Complaint filed 5/6/99.

EXAMINER

P. Ponnalunni

DATE CONSIDERED

11/20/01

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 28111/32106B	Serial No. 09/196,673
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		Applicant McCafferty et al.	
		Filing Date 11/20/98	Group 1627

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
_____	C158	Defendant Cambridge Antibody Technology, Limited's Motion to Dismiss Plaintiff MorPhosys AG's Complaint filed 6/8/99.
_____	C159	Response of Plaintiff MorphoSys AG to Cambridge Antibody Technology Ltd.'s First Set of Interrogatories and Request for Production of Documents and Things filed 10/18/99.
_____	C160	Plaintiff's Supplemental Answer to Interrogatory No. 2
_____	C161	Response of Plaintiff MorphoSys AG to Cambridge Antibody Technology Ltd.'s First Set of Interrogatories and Request for Production of Documents and Things filed 3/27/00.
_____	C162	Response of Plaintiff MorphoSys AG to Cambridge Antibody Technology Ltd.'s Second Set of Interrogatories filed 7/3/00.
_____	C163	Response of MorphoSys AG to Cambridge Antibody Technology's Third Set of Interrogatories filed 8/14/00.
_____	C164	Declaration Of Edward S. Golub, Ph.D. In Support Of MorphoSys' Motion For Partial Summary Judgment of Noninfringement filed 9/1/00.
_____	C165	Edward S. Golub, Ph.D. Curriculum Vitae.
_____	C166	Expert Report of Edward S. Golub, Ph.D. dated 6/00 (with Exhibit 1 E.S. Golub Curriculum Vitae Exhibit 2 E.S. Golub Validity Report and Exhibit 3 Declaration of E.S. Golub regarding Immunological Concepts).
_____	C167	Rebuttal Expert Report of Edward S. Golub, Ph.D.
_____	C168	Reply of Edward S. Golub, Ph.D. to Rebuttal Expert Reports of Edward P. Cohen, M.D. and Ronald H. Jackson, Ph.D. dated 08/01/00.
_____	C169	Declaration Of Carlos F. Barbas III, Ph.D. In Support Of MorphoSys' Motion For Partial Summary Judgment Of Noninfringement filed 9/1/00.
_____	C170	Carlos F. Barbas III, Ph.D. Curriculum Vitae.
pp	C171	Roitt et al., Immunology, Second Edition, 1989, Ivan Roitt et al., Gower Publishing, New York, p.5.1 (1989). <i>pages - -</i>

EXAMINER <i>P. Ponnaluri</i>	DATE CONSIDERED <i>1/10/01</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 28111/32106B	Serial No. 09/196,673
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		Applicant McCafferty et al.	
		Filing Date 11/20/98	Group 1627

(A large diagonal line is drawn across the main body of the form, indicating that no information is disclosed.)

EXAMINER <i>P. Ponnaluri</i>	DATE CONSIDERED <i>1/10/01</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	